Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	11/01/2018
Type of Mix	:	DBM
Sample I/D	:	1

GRADATION FOR DBM
(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	Date of Sampling:	11/01/2018
		Date of testing:	11/01/2018
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	102	102	6.80	93.20	90-100
19.00	134	236	15.73	84.27	71-95
13.20	264	500	33.33	66.67	56-80
4.750	352	852	56.80	43.20	38-54
2.360	202	1054	70.27	29.73	28-42
0.300	312	1366	91.07	8.93	7-21
0.075	78	1444	96.27	3.73	2-8
Pan	56				
Total	1500.0				

Assistant Executive Engineer
Kodigehalli Sub Division
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Consultant's Representative

TEJUS
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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/01/2018
Type of Mix	:	DBM
Sample I/D	:	1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	915	900
2. Weight of Mixture after extraction, g	876	861
3. Weight of Bitumen	39	39
4. Weight of filter paper before extraction, g	1.60	2.00
5. Weight of filter paper after extraction, g	4.00	3.60
6. Weight of fines, g	2.40	1.60
7. Weight of Bitumen & fines	41.40	40.60
8. Bitumen content in %	4.52	4.51
9. Average Bitumen content in %	**4.52**	
10. Minimum Bitumen content in %	**4.50**	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	Date of Sampling:	12/01/2018
		Date of testing:	12/01/2018
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	876

IS Sieve size in mm	Weight retained	Cummulative weight retained	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	86.0	86.0	9.82	90.18	90-100
19.00	118.0	204.0	23.29	76.71	71-95
13.20	120.0	324.0	36.99	63.01	56-80
4.750	112.0	436.0	49.77	50.23	38-54
2.360	128.0	564.0	64.38	35.62	28-42
0.300	148.0	712.0	81.28	18.72	7-21
0.075	112.0	824.0	94.06	5.94	2-8
Pan	52.0				
Total	876.0				

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Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/01/2018
Type of Mix	:	Tack coat
Sample I/D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.750	0.765
Final weight of plate after application of tack Coat (c)	Kg	0.773	0.788
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

Ac W-8

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Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/01/2018
Type of Mix	:	Tack coat DBM
Sample I/D	:	2

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.815	0.810
Final weight of plate after application of tack Coat (c)	Kg	0.838	0.833
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Consultant's Representative

Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/01/2018
Type of Mix	:	Tack coat DBM
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.815	0.810
Final weight of plate after application of tack Coat (c)	Kg	0.838	0.833
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Project	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Karthik Enterprises

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	BC	Date of Sampling	12/01/2018
Sample Location	At plant	Date of Testing	12/01/2018

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	340.00	350.00	360.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	270.00	278.00	285.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	70.00	72.00	75.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	20.59	20.57	20.83	
5	Average Aggregate impact value	(%)	20.66			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Consultant's Representative

TEJUS CONSULTANTS

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Project	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	12/01/2018
		Date of Testing	12/01/2018

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	918	94	824	86
16.0	12.5	1020	110	910	132
12.5	10.0	568	84	484	78
10.0	6.3	540	62	478	62
Total		3046	350	2696	358

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.49
Elongation Index(%):	13.28
Combined FI+EL (%)	24.77

AEW-8

Assistant Executive Engineer
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Name of Work	:	**Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli**
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	12/01/2018
Type of Mix	:	BC
Sample I/D	:	BC1

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location:	At plant	Date of Sampling:	12/01/2018
		Date of testing:	12/01/2018
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	102	102.0	8.50	91.50	79 - 100
9.50	100	202.0	16.83	83.17	71 - 95
4.75	212	414.0	34.50	65.50	53 - 71
2.360	168	582.0	48.50	51.50	42 - 58
1.180	112	694.0	57.83	42.17	34 - 48
0.600	148	842.0	70.17	29.83	26 - 38
0.300	124	966.0	80.50	19.50	18 - 28
0.150	80	1046.0	87.17	12.83	12 - 20
0.075	64	1110.0	92.50	7.50	4 - 10
Pan	90.0				
Total	1200.0				

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Consultant's Representative

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	13/01/2018
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	860	870
2. Weight of Mixture after extraction, g	812	821
3. Weight of Bitumen	48	49
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	3.60
6. Weight of fines, g	2.00	1.60
7. Weight of Bitumen & fines	50.00	50.60
8. Bitumen content in %	5.81	5.82
9. Average Bitumen content in %	**5.82**	
10. Minimum Bitumen content in %	**5.80**	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	13/01/2018
		Date of testing:	13/01/2018
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	812.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	88	88.0	10.84	89.16	79 - 100
9.50	100	188.0	23.15	76.85	71 - 95
4.75	80	268.0	33.00	67.00	53 - 71
2.360	124	392.0	48.28	51.72	42 - 58
1.180	102	494.0	60.84	39.16	34 - 48
0.600	88	582.0	71.67	28.33	26 - 38
0.300	68	650.0	80.05	19.95	18 - 28
0.150	64	714.0	87.93	12.07	12 - 20
0.075	66	780.0	96.06	3.94	4 - 10
Pan	32.0				
Total	812.0				

Consultant's Representative

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
Bangalore.

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Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	13/01/2018
Type of Mix	:	Tack coat
Sample I/D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.810	0.815
Final weight of plate after application of tack Coat (c)	Kg	0.833	0.838
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEJUS CONSULTANTS

Consultant's Representative

Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	13/01/2018
Type of Mix	:	Tack coat
Sample I/D	:	2

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.770	0.775
Final weight of plate after application of tack Coat (c)	Kg	0.793	0.798
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

Assistant Executive Engineer
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Consultant's Representative

Name of Work	:	Improvements to Road,Drain and Footpath in Lottegollahalli main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	13/01/2018
Type of Mix	:	Tack Coat
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.090	0.090
Initial Wt of empty Plate (b)	Kg	0.780	0.775
Final weight of plate after application of tack Coat (c)	Kg	0.803	0.798
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

AEW-8

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TEJUS CONSULTANTS

Consultant's Representative

Project	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Karthik Enterprises

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	DBM	Date of Sampling	06/01/2018
Sample Locatio	At plant	Date of Testing	06/01/2018

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	350.00	365.00	345.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	272.00	282.00	268.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	78.00	83.00	77.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	22.29	22.74	22.32	
5	Average Aggregate impact value	(%)		22.45		Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

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Project	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM	Proposed Use	DBM
Sample Location	At plant	Date of Sampling	06/01/2018
		Date of Testing	06/01/2018

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	8540	1032	7508	458
31.5	25.0	4520	564	3956	320
25.0	20.0	2430	502	1928	262
20.0	16.0	1264	264	1000	248
16.0	12.5	628	268	360	96
12.5	10.0	242	82	160	42
10.0	6.3	108	42	66	34
Total		**17732**	**2754**	**14978**	**1460**

Results

Flakiness Index(%):	15.53
Elongation Index(%):	9.75
Combined FI+EL (%)	25.28

Assistant Executive Engineer,
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TEJUS CONSULTANTS

Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	06/01/2018
Type of Mix	:	DBM
Sample I/D	:	1

GRADATION FOR DBM
(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	Date of Sampling:	06/01/2018
		Date of testing:	06/01/2018
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	94	94	6.27	93.73	90-100
19.00	132	226	15.07	84.93	71-95
13.20	262	488	32.53	67.47	56-80
4.750	362	850	56.67	43.33	38-54
2.360	202	1052	70.13	29.87	28-42
0.300	312	1364	90.93	9.07	7-21
0.075	78	1442	96.13	3.87	2-8
Pan	58				
Total	1500.0				

AE W-8

Assistant Executive Engineer,
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Consultant's Representative

TEJUS CONSULTANTS

Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	06/01/2018
Type of Mix	:	DBM
Sample I/D	:	2

GRADATION FOR DBM
(As per MORT&H 500-10,Grading-2)

Sample Location:	At plant	Date of Sampling:	06/01/2018
		Date of testing:	06/01/2018
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	1500.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0	0	0.00	100.00	100.00
26.50	120	120	8.00	92.00	90-100
19.00	110	230	15.33	84.67	71-95
13.20	232	462	30.80	69.20	56-80
4.750	372	834	55.60	44.40	38-54
2.360	202	1036	69.07	30.93	28-42
0.300	312	1348	89.87	10.13	7-21
0.075	78	1426	95.07	4.93	2-8
Pan	74				
Total	1500.0				

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TEJUS
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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	08/01/2018
Type of Mix	:	DBM
Sample I/D	:	1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	915	900
2. Weight of Mixture after extraction, g	876	861
3. Weight of Bitumen	39	39
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.20	3.60
6. Weight of fines, g	2.20	1.60
7. Weight of Bitumen & fines	41.20	40.60
8. Bitumen content in %	4.50	4.51
9. Average Bitumen content in %	**4.51**	
10. Minimum Bitumen content in %	**4.50**	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	Date of Sampling:	08/01/2018
		Date of testing:	08/01/2018
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	876

IS Sieve size in mm	Weight retained	Cummulative weight retained	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	80.0	80.0	9.13	90.87	90-100
19.00	122.0	202.0	23.06	76.94	71-95
13.20	128.0	330.0	37.67	62.33	56-80
4.750	112.0	442.0	50.46	49.54	38-54
2.360	130.0	572.0	65.30	34.70	28-42
0.300	152.0	724.0	82.65	17.35	7-21
0.075	118.0	842.0	96.12	3.88	2-8
Pan	34.0				
Total	876.0				

At W.8

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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	08/01/2018
Type of Mix	:	DBM
Sample I/D	:	2

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	910	900
2. Weight of Mixture after extraction, g	871	852
3. Weight of Bitumen	39	48
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	3.50
6. Weight of fines, g	2.00	1.50
7. Weight of Bitumen & fines	41.00	49.50
8. Bitumen content in %	4.51	5.50
9. Average Bitumen content in %	**5.00**	
10. Minimum Bitumen content in %	**4.50**	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	At site	Date of Sampling:	08/01/2018
		Date of testing:	08/01/2018
Type of material & Purpose:	DBM	Oven Dry Wt.(gms):	871

IS Sieve size in mm	Weight retained	Cummulative weight retained	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	70.0	70.0	8.04	91.96	90-100
19.00	118.0	188.0	21.58	78.42	71-95
13.20	124.0	312.0	35.82	64.18	56-80
4.750	116.0	428.0	49.14	50.86	38-54
2.360	130.0	558.0	64.06	35.94	28-42
0.300	150.0	708.0	81.29	18.71	7-21
0.075	118.0	826.0	94.83	5.17	2-8
Pan	45.0				
Total	871.0				

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Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	08/01/2018
Type of Mix	:	Tack coat
Sample I/D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	**Unit**	**Test No**	
		1	**2**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.765	0.760
Final weight of plate after application of tack Coat (c)	Kg	0.788	0.784
Weight of tack Coat (d=c-b)	Kg	0.023	0.024
Rate of spread of tack coat	Kg/sq.m	0.256	0.267
Average	Kg/sq.m	0.261	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	08/01/2018
Type of Mix	:	Tack coat DBM
Sample I/D	:	2

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.785	0.790
Final weight of plate after application of tack Coat (c)	Kg	0.808	0.813
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

AEW-8

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Name of Work	:	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	08/01/2018
Type of Mix	:	Tack coat DBM
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.775	0.780
Final weight of plate after application of tack Coat (c)	Kg	0.798	0.803
Weight of tack coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

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Project	Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Karthik Enterprises

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Proposed Use	BC	Date of Sampling	09/01/2018
Sample Location	At plant	Date of Testing	09/01/2018

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	380.00	370.00	360.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	290.00	284.00	274.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	90.00	86.00	86.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	23.68	23.24	23.89	
5	Average Aggregate impact value	(%)	23.61			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	M/s Karthik Enterprises

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	09/01/2018
		Date of Testing	09/01/2018

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	894	90	804	86
16.0	12.5	1050	110	940	132
12.5	10.0	582	80	502	78
10.0	6.3	510	58	452	62
Total		3036	338	2698	358

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.13
Elongation Index(%):	13.27
Combined FI+EL (%)	24.40

A & W-8

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Name of Work	:	**Improvements to Road,Drain and Footpath in Devinagara main road and cross roads in ward No.8 Kodigehalli**
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	M/s Karthik Enterprises
Date of Testing	:	09/01/2018
Type of Mix	:	BC
Sample I/D	:	BC1

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location:	At plant	Date of Sampling:	09/01/2018
		Date of testing:	09/01/2018
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	100	100.0	8.33	91.67	79 - 100
9.50	108	208.0	17.33	82.67	71 - 95
4.75	212	420.0	35.00	65.00	53 - 71
2.360	132	552.0	46.00	54.00	42 - 58
1.180	110	662.0	55.17	44.83	34 - 48
0.600	176	838.0	69.83	30.17	26 - 38
0.300	124	962.0	80.17	19.83	18 - 28
0.150	76	1038.0	86.50	13.50	12 - 20
0.075	68	1106.0	92.17	7.83	4 - 10
Pan	94.0				
Total	1200.0				

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